### Time Card No. 147

Effective Sunday, April 12, 1914. TRAINS GOING SOUTH.

No. 93-C. & N O. Lim 11 56 p. m. No. 51-St. L. Express 5:35 p. m. No. 95-Dixle Flyer 9:01 s. m. No. 55-Hopkinsville Ar. 7:05. s. m. No. 53-St. L. Fast Mail 5:33 a. m.

TRAINS GOING NORTH.

No. 92-C. & St. L. Lim., 5:25 a. m. No. 52-St. Louis Express, 9:52 a.m. No. 94-Dixle Flyer, 6:54 p. m. No. 56-Hopkinsville Ac. 8:55 p. m. No. 54-St. L. Fast Mail 10:18 p. m.

te se far south as Erin and for Louisville

Hee, 53 and 55 make direct connections at Guthe for Louisville. Cincinnati and all points north ad seat thereof. Nos, 63 and 55 also connect for te and way pointr.

95 carries through elemens to Atlanta, Ma-facksonville, St. Augustine and Tamps, Fla Pullman sis op us to New Orleans Connecta thrie for points East and West. No. 95 will

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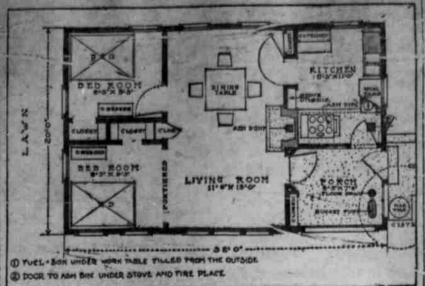
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What He Wanted to Sec. Three-year-old Emerson had an idea all music was produced by a method similar to that of the talking ma-chine, with which he was familiar. One time he attended a band concert and insisted on going up to the band stand after the band had played a selection. His father saked him why wanted to go and he replied, "Want watch them change the needle."

### CHEAP FARM HOUSE FOR TENANT OR OWNER



PARM TENANT HOUSE.

With good binding or cementing gravel satisfactory roads may be made by surfacing the prepared earth sub grade with one or two layers of this material. The earth road is first shaped with a road machine, and if possible, rolled with an eight or ten ton roller. The earth foundation should be crowned but slightly. The material is spread in one, two or three layers to a total depth of from 8 to 12 inches in the center and from four to six inches at the sides, gradually diminishing in depth to a feather edge toward the side ditches. The depth of gravel will depend upon the traffic and, to some extent, on the material

as well as the earth subgrade. Some varieties of gravel must be sprinkled and rolled before they will consolidate, while others bind well under ordinary traffic. Sometimes a good practice is to apply the gravel in wet weather, or to wet the gravel before it is applied to the road. In some cases a little clay or loam will hasten the binding process. Care should be taken, however, not to use too much clay or loam, as these will soften in wet weather. An excess of clay makes the road dusty in summer and muddy

If it becomes necessary to build the road without a roller or sprinkler, the work should be done in the spring of the year before the rains have ceased. The traffic will pack the material much better then than in the summer

The width of the gravel road will depend upon traffic conditions. It should be surfaced to a width of at least 12 feet, and if possible, to a width of from 14 to 16 feet. A narrow strip of gravel will wear out much more quickly than one which is a little If the road is surfaced to a width of 16 feet, then the center of the road should be from five to eight inches higher than the outside edge of the gravel. This is sufficient for drainage. If the crown is higher than about an inch to the foot, the traffic will be forced to the center of the road and cause it to wear more

The cost of building gravel roads varies greatly in different parts of the country, depending principally on the distance materials are hauled and the cost of labor and teams. So far as can be ascertained, the average cost of building 19,900 miles of gravel road in Indiana was \$1473 per mile The average cost of building 237 miles \$2,425 per mile. The New Jersey roads were surfaced to an average width of 15.3 feet and an average depth of 8.4 inches. The average cost. of building 70 miles in Connecticut was \$3,741 per mile. The Connecticut roads were surfaced to an average width of 15.5 feet and to a depth of 8.2 inches.

### APPLYING LIME TO THE SOIL

Most Important Point to Be Observed is to Mix it Thoroughly-Have Particles Very Fine.

Some writers recommend that upon old, mossy meadows and pastures, lime should be applied to the surface before plowing, in order that it may help to quickly decompose the organic matter.

The main objection to this practice, writes R. D. Perry in Perdue Agriculturist, is that the lime does not become well incorporated in the soil, and since some of it is turned to the borhood of \$1,300. For a small addibottom of the furrow and its tendency at all times is to work downward, it attached to the engine with which to may be quickly carried not only away from the surface soil, but also from the gravel from the pit to the hopper.

the reach of the plants. The practice of liming such soils immediately after plowing and then rious parts of the country . Most of thoroughly harrowing has been attended by excellent results. A most of or plan. Some fail because important point to be observed in ap | the material is poor, but the majority plying lime of all kinds is to mix it of the failures is due to the fact that with the soil as thoroughly as post the material is not properly applied to sible, the finer the particles the better | the road. the results.

Advantages of Spreader.

In using a spreader the manure is more evenly placed on the ground than can be done by the old-time method of using the fork. It is generally considered that fresh manure is of much more value than that which has been deposited in piles, owing to the loss in the latter by fermentation and leaching.

Interesting Cow. The cow that makes a half ton o. butter in a year is not nearly as in teresting as the herd that average pounds in the same time. The is a freak, the other shows ski on the part of the owner.

(Prepared by the United States Depart-ment of Agriculture.)

A properly located and well-drained earth foundation is the prerequisite of a good gravel road, says the office of public roads, department of agriculture. It is a waste of material and labor to apply gravel to the surface of a road which is full of ruts and holes. A smooth, solid foundation is just as necessary as in macadam construction.

There are so many kinds of gravel that it is almost impossible to lay down principles of construction which will hold good in all cases. A road building gravel should bind well. The qualities of hardness and toughness are important, but not so important as the cementing value. The angular gravels with square, sharp fractures are the best. Water-worn creek or river gravel, which is round and clean, will seldom produce a satisfactory wearing surface. Such material may, however, be used for a foundation and bonded with a layer of suitable pit

Two deposits of gravel are seldom found which are exactly alike. When there are several pits to choose from, hand samples should be selected from each and carefully examined and if possible a test made to ascertain the cementing value of each. By separating the gravel, sand and clay a fair idea of the relative value of each may be ascertained. If there is still any doubt as to which is the best, a short stretch of road of each sample will indicate within a few months, not only the cementing value, but also the wearing quality of each.

If the gravel varies in size from very small pieces to large pieces, good results may sometimes be se cured by separating the gravel with



Indiana Gravel Road.

a hand or power screen. Gravel roads built of screened gravel are usually superior to those built of unscreened gravel, although there are exceptions to this rule.

When the gravel is separated, the coarse is used for the foundation, the medium sized pleces for the wearing course, and the fine gravel and dust for the binder as in regular macadam construction. If there is an excess of earth, sand, or clay, as is often the case, these can and should be removed by screening.

An outfit consisting of a gasoline engine, hopper, elevator, revolving screen and medium sized bins for three sizes of gravel will cost in the neightional outlay a drum and cable may be operate a bucket conveyor to carry

There are many different methods of building gravel roads in use in vathem, however, are built without meth-

The following are the principal causes of failure. First: poor material; round water-worn gravel; too little binder or too much sand, earth or clay. Second: unstable foundations; placing gravel on surfaces filled with ruts and holes, Third; poor drainage; too flat, or too high in the middle, side ditches too deep or not deep enough, culverts which are too small, or which are laid so flat that they are soon filled with silt or trash. Fourth: spreading gravel in dry weather, dumping it in piles and leaving it for the traffic to spread. Fifth: making the road too narrow to accommodate the traffic, or so narrow that wagons will track and soon cut the surface into ruts. Sixth: failure to keep ruts end holes filled with gravel.

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### AT THE CHURCHES.

J. B. Eshman, Pastor. Sunday School at 9:30. Preaching at 11 a. m. Christian Endeavor 6:15. Preaching at 7:15 p. m.

First Baptist-Church-Rev. C. M. Thompson, Pastor. Se vices as us 18 Sunday School-9:30 a. m.

Morning Service —11:00 a. cr, B. Y. P. U.—6:00 p. m Evening Service—7:00 p. m. Second Baptist Church-Rev. W. R. Goodman, Pastor, Sunday School-9.45 a. m.

Preaching-11 a. m. Preaching-7:30 p. m. Prayer meeting every Wednesday

Methodist Episcopal Church--Rev. bids. A. R. Kasey, Pastor. Sunday School—9:30 a. m. Morning Service-10:45 a. m. Epworth League-6:30 p. m. Evening Service-7:30 p. m. Prayer meeting at 7:30 p. m. every

Wednesday. Rev. C. H. H. Branch, Pastor. Sunday School-9:30 a. m. Men's Bible Class-10:00 a. m. Morning Service-11:00 a. m.

First Presbyterian Church Sunday School-9:30 a, m. Christian Endeavor-6:15 p. m. Weekly Prayer Meeting - Wednesday-7:15 p. m.

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J. H. DILLMAN, Road Engineer.

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